

Message Text

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TAGS:CCMS, ENRG, SENV, NATO

SUBJECT: CCMS: PROGRESS REPORTS

1. REQUEST MISSION PASS FOLLOWING UPDATED PROGRESS
REPORTS TO CCMS/IS, AS REQUESTED AC/274-N/66.

2. FLUE GAS DESULFURIZATION
PILOT COUNTRY: US

THE INITIAL PHASE OF THE NATO-CCMS STUDY EMPHASIZES THE
STATE OF THE ART OF OPERATING FLUE GAS DESULFURIZATION
(FGD) SYSTEMS. FGD PROCESSES ARE BEING STUDIED BY
THREE LEAD COUNTRIES AND DRAFT REPORTS DESCRIBING THE
STATUS OF 12 FGD PROCESSES WILL BE COMPLETED BY
AUGUST 30, 1977.

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THE FIRST MEETING OF THE NATO-CCMS STUDY GROUP WAS
HELD IN LONDON, ENGLAND ON FEBRUARY 1 AND 2, 1977 TO
FINALIZE PLANS FOR THE FIRST PHASE OF THE FLUE
GAS DESULFURIZATION STUDY. AT THIS MEETING THE PROJECT
SCOPE WAS DISCUSSED AND FURTHER DEFINED, AND THE FOLLOWING
SCHEDULE ESTABLISHED.

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MAY 30, 1977

COMPLETION OF INFORMATION SURVEYS BY EACH COUNTRY.
SUBMIT INFORMATION TO LEAD COUNTRY (UNITED STATES,
FEDERAL REPUBLIC OF GERMANY, OR NORWAY).

AUGUST 30, 1977

COMPLETION OF DRAFT FGD PROCESS STATUS REPORT BY
LEAD COUNTRY. (COPIES SUBMITTED TO ALL PARTICIPATING
COUNTRIES.)

OCTOBER 15, 1977

ASSEMBLE INDIVIDUAL PROCESS REPORTS INTO AN OVERALL
PROJECT REPORT BY US EPA.

NOV. 7 AND 8, 1977

PROJECT MEETING TO DISCUSS DRAFT REPORT AND TO CONFIRM
PLANS FOR FURTHER STUDY. ROME, ITALY.

FEBRUARY 13, 1978

FINALIZE/PUBLICATION OF STATE-OF-THE-ART SURVEY BY US EPA.
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THIS SURVEY WILL INCLUDE ONLY LARGER FUEL BURNING INSTAL-
LATIONS AND WILL EMPHASIZE THOSE UNITS WHICH HAVE OPERATED
MORE SUCCESSFULLY.

BASED ON DATA FROM THE SURVEY FORMS AND OTHER AVAILABLE
INFORMATION, WORK IS PROCEEDING ON PREPARATION OF THE
12 SEPARATE FGD STATUS REPORTS. EACH PROCESS REPORT
PRESENTS A GENERAL PROCESS DESCRIPTION, THE CURRENT
STATUS AND PLANS, RECENT DEVELOPMENTS AND SOLUTIONS TO
PROBLEM AREAS, COST DATA, AND A BIBLIOGRAPHY OF OTHER
AVAILABLE REPORTS. TO-DATE, PREPARATION OF THESE REPORTS
IS ON SCHEDULE AND SHOULD BE COMPLETED BY APPROXIMATELY
AUGUST 30, 1977.

3. RATIONAL USE OF ENERGY
PILOT COUNTRY: US

(1) ELECTRIC UTILITY LOAD MANAGEMENT.

THE FINAL REPORT FOR THIS PROJECT HAS BEEN PREPARED AND
PRINTED AS CCMS REPORT NO. 56. COPIES OF THE

REPORT WILL BE FORWARDED TO ALL PARTICIPANTS IN THE
PROJECT. ADDITIONAL COPIES OF THE REPORT CAN BE
OBTAINED BY CONTACTING THE US ENERGY RESEARCH AND
DEVELOPMENT ADMINISTRATION.

(2) INTERNATIONAL INDUSTRIAL DATA BASE.

THE SEVENTH MEETING OF THE INTERNATIONAL DATA BASE PROJECT WAS HELD IN OXFORD ON APRIL 18, 1977, AT WHICH TIME THE METHODOLOGY GROUP COMPLETED ITS WORK. THE BREWERY STUDY WILL BE CONDUCTING ITS NEXT MEETING IN WILLIAMSBURG ON OCTOBER 31, 1977.

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(3) MIUS.

REPRESENTATIVES FROM SEVEN NATO COUNTRIES ATTENDED THE JULY 12-14, 1977 MIUS PROJECT MEETING NEAR TURIN, ITALY (THE FIFTH AND FINAL MEETING). THE PARTICIPANTS RECEIVED THE REPORTS FROM THE VARIOUS WORKING COMMITTEES (SUBGROUPS) AND APPROVED THE CATALOG AND THE DOCUMENTS PREPARED BY THE WORKING COMMITTEES FOR INCLUSION IN THE FINAL REPORT FOR SUBMITTAL TO THE OCTOBER PLENARY. THE OVERALL COMMITTEE WILL RECOMMEND TO THE PLENARY THAT THE COMMITTEE'S PRINCIPAL WORK CONTINUE, THAT ATTENTION BE GIVEN TO THE INSTITUTIONAL PROBLEMS ASSOCIATED WITH

THE IMPLEMENTATION OF INTEGRATED UTILITY SYSTEMS AND THAT ANOTHER INTERNATIONAL ORGANIZATION BE SOUGHT UNDER WHOSE AUSPICES THE WORK COULD CONTINUE.

(4) CLIMATIC CONDITIONS.

THE TRY APPROACH HAS BEEN INCORPORATED INTO THE IEA ACTIVITIES IN THIS AREA. THE FINAL REPORT OF THE PILOT PROJECT WILL BE MADE AVAILABLE THIS YEAR.

4. AUTOMOTIVE PROPULSION SYSTEMS

PILOT COUNTRY: US

THE FOURTH NATO/CCMS INTERNATIONAL SYMPOSIUM ON AUTOMOTIVE PROPULSION SYSTEMS WAS HELD IN ARLINGTON, VIRGINIA, USA, APRIL 17-22, 1977. APPROXIMATELY 500 PEOPLE ATTENDED, REPRESENTING 12 COUNTRIES. GOVERNMENT AND INDUSTRY APS STATUS REPORTS FROM THE NINE COUNTRIES PARTICIPATING IN THE PILOT STUDY WERE PRESENTED AT THE

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SYMPOSIUM'S OPENING PLENARY SESSION, FOLLOWED BY FOUR DAYS OF TECHNICAL PRESENTATIONS IN THE AREAS OF GAS TURBINE, DIESEL, STIRLING, RANKINE, AND STRATIFIED CHARGE ENGINES; ALTERNATIVE FUELS; ELECTRIC AND HYBRID VEHICLE SYSTEMS; VEHICLE AND SPARK IGNITION IMPROVEMENTS;

POWERTRAIN COMPONENTS; AND AUTOMOTIVE EMISSIONS. THE PROCEEDINGS OF THE SYMPOSIUM WILL BE PUBLISHED AND DISTRIBUTED THIS FALL AS NATO/CCMS DOCUMENT NO. 61.

BASED ON THE RESPONSES TO THE QUESTIONNAIRE ON AUTOMOTIVE PROPULSION SYSTEMS AND ON INFORMAL DISCUSSIONS AMONG THE REPRESENTATIVES OF THE PARTICIPATING COUNTRIES, IT WAS AGREED AT A WORKING GROUP MEETING HELD APRIL 22, 1977, THAT:

1. THE PILOT STUDY ON AUTOMOTIVE PROPULSION SYSTEMS BE CONCLUDED WITH THE FOURTH SYMPOSIUM,
2. THE SYMPOSIA SERIES BE CONTINUED, ON THE SAME BASIS AS ESTABLISHED IN THE PILOT STUDY, BUT WITHOUT CCMS SPONSORSHIP, AND
3. PARTICIPANTS IN THE PILOT STUDY SUPPORT AND ENCOURAGE SPECIFIC INTERNATIONAL COOPERATIVE RESEARCH AND DEVELOPMENT PROJECTS EITHER WITHIN THE FRAMEWORK OF ANOTHER INTERNATIONAL GROUP OR BILATERALLY.

THE UNITED STATES, AS PILOT COUNTRY, IS PREPARING A DRAFT PILOT STUDY FINAL REPORT WITH RECOMMENDATIONS. A WORKING GROUP MEETING WILL BE HELD IN SEPTEMBER IN MUNICH, FRG, TO REVIEW THE DRAFT REPORT AND APPROVE THE RECOMMENDATIONS. THE APPROVED DRAFT REPORT WILL THEN BE DISTRIBUTED AT THE CCMS PLENARY SESSION IN OCTOBER.

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WITH REGARD TO SPECIFIC RESEARCH AND DEVELOPMENT PROJECTS, OF THE FIVE AREAS PREVIOUSLY IDENTIFIED FOR POSSIBLE COOPERATION (SEE JANUARY 1977 PROGRESS REPORT) THE AREA OF HIGH TEMPERATURE MATERIALS (SPECIFICALLY FOR APPLICATION IN GAS TURBINE AND STIRLING ENGINES) HAS BEEN SELECTED BY THE UNITED STATES FOR INITIAL EXPLORATION. A MEETING OF EXPERTS IN HIGH TEMPERATURE MATERIALS WILL BE HELD IN SEPTEMBER TO DISCUSS THE PRESENT STATE-OF-THE-ART, TO DEFINE SPECIFIC TASKS TO BE ACCOMPLISHED, AND TO IDENTIFY RESPONSIBILITIES OF

PARTICIPANTS IN A MULTILATERAL PROJECT. AS AGREED AT THE APRIL 1977 WORKING GROUP MEETING, THIS MEETING OF EXPERTS WILL NOT BE HELD UNDER THE AUSPICES OF CCMS, BUT WILL BE OPEN TO BOTH GOVERNMENTAL AND INDUSTRIAL EXPERTS OF ANY INTERESTED COUNTRY. THE DOCUMENT RESULTING FROM THIS MEETING MAY SERVE AS THE BASIS FOR A MULTILATERAL AGREEMENT WITHIN THE FRAMEWORK OF AN APPROPRIATE INTERNATIONAL GROUP.

5. SOLAR ENERGY

PILOT COUNTRY: US

THE FIRST MEETING OF THE NEWLY-FORMED MEDITERRANEAN APPLICATIONS GROUP WILL BE HELD OCTOBER 10-12, 1977 IN NICE. AT LEAST TEN COUNTRIES HAVE INDICATED THAT THEY WILL ATTEND THIS MEETING WHICH IS BEING ORGANIZED BY FRANCE, WHICH CHAIRS THE GROUP. THE MEETING WILL FOCUS ON APPLICATIONS OF SOLAR ENERGY FOR MEDITERRANEAN-TYPE CLIMATES, WITH EMPHASIS ON PASSIVE HEATING AND COOLING. IT WILL PROVIDE AN OPPORTUNITY FOR SOLAR EXPERTS TO EXCHANGE DETAILED INFORMATION ON AN INFORMAL BASIS AND TO NOTE OPPORTUNITIES FOR POSSIBLE COOPERATION.

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PROF. KORSGAARD OF DENMARK HAS INITIATED PLANS FOR THE THIRD MEETING OF THE ZERO ENERGY HOUSE GROUP, SCHEDULED FOR FALL 1977. A FIRM DATE AND LOCATION WILL BE SET SHORTLY.

THE ANNUAL SOLAR ENERGY PILOT STUDY MEETING WILL BE HELD APRIL 17-20, 1978 IN DUSSELDORF, FRG. THE MEETING WILL BE COMPROMISED OF TWO PARTS. THE PILOT STUDY MEETING WILL TAKE PLACE ON APRIL 17 AND 18 AND ATTENDANCE WILL BE BY INVITATION ONLY. AN OPEN CCMS-SPONSORED TECHNICAL CONFERENCE WILL FOLLOW ON APRIL 19 AND 20. THE PRESENTATIONS, BY CCMS COUNTRIES, ON PERFORMANCE OF SOLAR HEATING AND COOLING SYSTEMS WILL BE BASED ON REPORTS PREPARED IN ACCORDANCE WITH THE CCMS SYSTEM REPORTING FORMAT. A PLANNING MEETING, TO BE ATTENDED BY THE PILOT AND CO-PILOT COUNTRIES AND THE HOST COUNTRY, IS SCHEDULED FOR OCTOBER 20 IN DUSSELDORF.

THIRTEEN COUNTRIES HAVE DESIGNATED A CENTRAL INFORMATION CONTACT TO RECEIVE ONE COPY OF EACH EXCHANGE REPORT. THE INFORMATION CONTACT IS INTENDED TO ASSIST THE CONTACT PERSON WITH INTERNAL INFORMATION DISSEMINATION AND THEREBY CONTRIBUTE TO A MORE EFFECTIVE INFORMATION EXCHANGE.

THE REPORT OF THE 1976 COPENHAGEN MEETING (CCMS REPORT NUMBER 54) HAS BEEN PRINTED AND DISTRIBUTED.

6. GEOTHERMAL ENERGY

PILOT COUNTRY: US

THIS VERY SUCCESSFUL COOPERATIVE PROGRAM FOR GEOTHERMAL ENERGY DEVELOPMENT HAS NOW BEEN COMPLETED. THE PILOT STUDY CONSISTED OF FIVE PARALLEL PROJECTS: HOT DRY ROCK, NONELECTRIC OR DIRECT USE OF GEOTHERMAL HEAT,

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INFORMATION SYSTEMS, RESERVOIR ENGINEERING, AND SMALL PORTABLE POWER PLANTS. THE COMPLETION OF THE LAST THREE PARTS WAS ANNOUNCED AT THE SPRING 1977 PLENARY; THE OTHER TWO WERE CONCLUDED DURING THE LAST SIX MONTHS, AS WILL BE DISCUSSED BELOW.

TWO NOTES OF INTEREST: ON JULY 21, 1977, THE US AND MEXICO SIGNED A BILATERAL AGREEMENT WHICH PROVIDES A VEHICLE FOR LONGER TERM CONTINUATION OF THE CCMS RESERVOIR ENGINEERING PROGRAM, AND IN JULY A PORTABLE GEOTHERMAL POWER PLANT BEGAN OPERATION IN THE PHILIPPINES. A SIMILAR INSTALLATION IS PLANNED FOR HAWAII WITHIN THE NEXT FEW YEARS.

THE DIRECT USE OF GEOTHERMAL HEAT WAS THE SUBJECT OF A FINAL CCMS CONFERENCE IN WASHINGTON ON JUNE 21 AND 22, 1977. PARTICIPANTS FROM ELEVEN COUNTRIES ATTENDED. IT WAS GENERALLY AGREED THAT NONELECTRIC USES HAD A GREAT POTENTIAL FOR GROWTH BECAUSE OF THE WORLD-WIDE CLIMB IN FOSSIL ENERGY COSTS. PROCEEDINGS WILL BE PUBLISHED THIS

FALL AS CCMS DOCUMENT 66. TENTATIVE PLANS FOR FOLLOW-UP CONFERENCE IN 1980 IN FRANCE WERE INFORMALLY DISCUSSED WITH THE DELEGATES.

THE FINAL HOT DRY ROCK CONFERENCE WAS HELD IN LOS ALAMOS, NEW MEXICO ON JUNE 28, 29, AND 30, 1977. REPRESENTATIVES OF NINE COUNTRIES ATTENDED AND THE NUMBER OF PARTICIPANTS TOTALLED EIGHTY-SIX. IN ADDITION TO A DETAILED DESCRIPTION OF THE FENTON HILL EXPERIMENT NEAR LOS ALAMOS, THERE WAS A DISCUSSION OF OTHER INTERNATIONAL HDR PROGRAMS SCHEDULED TO BEGIN IN THE NEAR FUTURE. AT A MAY MEETING OF THE INTERNATIONAL ENERGY AGENCY IN PARIS, UNCLASSIFIED

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A COOPERATIVE PROGRAM ON HOT DRY ROCK WAS SELECTED AS THE FIRST IEA GEOTHERMAL PROGRAM. THIS PROGRAM CAN BE SEEN AS A CONTINUATION OF THE COMPLETED CCMS PROJECT.

7. DRINKING WATER

PILOT COUNTRY: US

IN VIEW OF EXISTING AND POTENTIAL PROBLEMS IN THE SUPPLY OF DRINKING WATER, THE U.S. SUBMITTED A PROPOSAL FOR A CCMS PILOT STUDY AT THE FALL PLENARY IN BRUSSELS, OCTOBER, 1976. A PLANNING MEETING OF EXPERTS WAS HELD IN DECEMBER, 1976, AT WHICH AN OUTLINE SCOPE OF WORK WAS PREPARED. THE APPROVAL OF CCMS WAS GIVEN AT THE 1977 SPRING PLENARY, HELD IN DUSSELDORF, FRG FEBRUARY 8-9, AND

THE FIRST EXPERTS MEETING CONVENED IN BRUSSELS, APRIL 25-27, 1977, WITH THE U.S. AS PILOT COUNTRY.

THE PRIMARY OBJECTIVES OF THE STUDY ARE TO ACHIEVE A BETTER UNDERSTANDING OF:

1. THE DRINKING WATER PROBLEMS THAT INDUSTRIALIZED COUNTRIES SHARE;
2. SOLUTIONS TO THESE PROBLEMS THAT ARE AVAILABLE;
3. POTENTIAL PROBLEMS FOR WHICH SOLUTIONS ARE CURRENTLY NOT AVAILABLE (EXCEPT, PERHAPS, AT PROHIBITIVE COST).

IN ORDER TO BEST ACCOMPLISH THESE OBJECTIVES, THE PROJECT WAS DIVIDED INTO SIX MAJOR PROJECT AREAS, EACH WITH A LEAD COUNTRY, AS INDICATED BELOW:

PROJECT AREA	COUNTRY
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I. ANALYTICAL CHEMISTRY

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----- AND DATA HANDLING	UK
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II. ADVANCED TREATMENT

----- TECHNOLOGY	FRG
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III. MICROBIOLOGICALS US

IV. HEALTH EFFECTS US

V. REUSE OF WATER RESOURCES UK

VI. GROUND WATER

CONSIDERATIONS	FRG
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OUTLINES OF PROPOSED WORK ARE CURRENTLY BEING PREPARED AND, WHERE POSSIBLE, CIRCULATED AMONG PARTICIPANTS. IN

PROJECT AREA I, A QUESTIONNAIRE WAS COMPILED AND DISTRIBUTED TO PARTICIPANTS IN JUNE, BUT RESPONSE TO DATE HAS BEEN SLOW.

A SECOND EXPERTS MEETING IS PLANNED FOR OCTOBER 4-7, 1977, IN LONDON. IT IS ANTICIPATED THAT PROGRAM PLANS NOW BEING FORMULATED WILL BE APPROVED AT THE MEETING, WITH THE WORKLOAD DISTRIBUTED AMONG DELEGATES.

CHRISTOPHER

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<< END OF DOCUMENT >>

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